

Product datasheet for **MR210603**

Zw10 (NM_012039) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zw10 (NM_012039) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zw10
Synonyms:	6330566F14Rik; MmZw10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210603 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCTCTTTCGTGACAGAAGTCTTGCCCACTCGGGGAGCCTGGAGAAGGAGGATCTGGGCACCAGGA
 TCAGCCGCCTGACCCGGCGGGTGGAGGAGATCAAGGGTGAAGTATGCAATATGATCAGCAAGAAGTACAG
 TGAGTTCTGCCTACCATGCAGAGTGCGCAGGCCCTAGTTACCCAGGTGGACACTCTATCTAACGACATC
 GACCAGCTGAAATCCAGGATAGAGACTGAGGTCTGTGGGATCTTACATATCAACTGTTGAGTTTACAA
 ACCTGAAGCAGCAGCTGGAAAGAGACTCTGTAGTCCTAACTCTGCTCAACAACCTCAAGAGTTTCTCTC
 TGCTATTGAAGAGTATAACAGTGCCTTAGCAGAGAAGAAGTACATCCCTGCTGCTCGGCACCTGGAGGAG
 GCTCAGGAGTGCTTGAAGTTATTAAGTCCAGAAAATGCTTTGACTTAAAAATGTTGAAGTCTCTCAGCA
 TGGAGCTCACCGTGCAGAAGCAGAACATACTGTACCACCTGGGAGAAGACTGGCAGAAGCTGGTTGTATG
 GAAGTTTCCGCCGCAAAAGATACCAGCAGCTTAGAGTCTTGTCTACAAACAGAGCTTCATTATGCACT
 GAGCAGCCGGAGAAAGAGGACATGACTCCTCTGCCGTCCATCAGTTCTGTCTCTTGGCCTTTTCCATTC
 TTGGAGAATTACCCACCAAGCTGAAGTCATTTGGTCAGATGCTGCTGAAGTATATCCTTAAGCCTCTGGT
 GACCTGCCCGTCGCTCCATGCTGTGATTGAAAGGCAGCCAAGTTCAGTTAGCATTTGTTTCGAGTCTCTG
 ACGACGGACTTGGAAACACCCATCACCACCCGAAGCTTTTGCAAAGATCCGATTGGTCTGGAAAGTCTCC
 AGAAACAGCTTCTAGATTTGCCTCTTGATGCTGACCTAGAAAATGGAAAAGTCCCTGGGATCGTGTGGC
 TGAGATGCTTGGTGAGGGGATCTGGGAGGACCTTTCTGAGTGCCTCATCAGAACTGCTTGGTTTACTCT
 ATTCCCAAAACAGCAGCAAGCTCCAGGAATACGAAGAGATTATACAGTCCACAGAAGAATTTGAAAAGT
 TCCTAAAGGAGATGAGGTTTTTAAAGGCGATACTACTGACTTGGTGAATATGCTCGCAATATCAATTC
 TCATTTTGTCTAATAAGAAGTGCCAGGATGTGATTGTGGCGGCTAGAAAATCTCATGACCTCTGAGATTAC
 AACACTGTCAAGATTGGTCCCGATTGTAAGGAAGCCTTACCAGACTTACCAGTCTGATGCTGATCACA
 AGCTACAAGTACAGACGGTCTGCAAAGCGCAGTTCACCGACGCCGGGAACCTAGAGCCTGAGACTTCTCT
 GGACCCTCAGTCTTTTCTTACCACGTGCCGCATCAGCGAGGCTGTGAAGAAGTTAATGGAGCTCGCT
 TATCAGACTTTACTTGAGGCAACAACAAGTAGCGACCAATGTGCTGTCCAGCTCTTCTACTCAGTGAGGA
 ATATCTTCCATTTGTTCCATGATGTGGTACCAACATACCACAAGGAGAACCTTCGGAAGCTCCCCAGTT
 GGCTGCCATTACCACAACAAGTGCATGTATATTGCTCACCCTTGTGACCTCGGTATCAGTTCAGA
 TTGCGGCTCGCCCCATCCTTTGCGATGGCAGCACCACCTTTGTGGATCTGTACCTGGCTTCAGAAGAC
 TTGGGACGGAGTGCTTTTGGCCCAATGCAGGCACAGAAAGGAGAACTTCTGGAGAGATTGTCAAGTGC
 TAGAAGCTTTGCGAACATGGACGACGAAGAGAATTACTCTGCAGCGAGCAAGGCAGTGAGGCAGGTGCTG
 CACCAGCTAAGGAGACTTGGGATCGTGTGGCAGGATGTCTGCCAGTGAACATATACTGCAAGGCCATGG
 GGACCTTGCTGAACACAGCGATTGCTGAGATGATGAGCAGGATCACTGCTCTAGAGGACATCTCGACTGA
 AGATGGTGATAGATTGTATCCCTGTGCAAAACAGTGATGGATGAAGGTCCACAAGTGTTTGCACCTCTG
 TCTGATGAAAACAAAAACAAGAAATACCAAGAAGAGGTTCCCGTCTATGTGTCCAAATGGATGCCTTTCA
 AAGAACTCATGATAATGCTACAAGCTAGCTTGAAGAAATGGAGATCGGTGGGCAGATGGAAAAGGGCC
 CCTGGCAACTGCATTCCCTTCCAGCGAAGTCAAAGCTTTAATCCGTGCCTTGTTCAGAACACAGAAAGA
 AGAGCAGCTGCCCTTGCTAAGATTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210603 protein sequence

Red=Cloning site Green=Tags(s)

MASFVTEVLAHSGSLEKEDLGTRISRLTRRVEEKGEVCNMISKKYSEFLPTMQSAQALVTQVDTLSNDI
DQLKSRIETEVCRDLHISTVEFTNLKQQLERDSVVLTLKQLQEFSSAIEEYNSALAEKKYIPAARHLEE
AQECLKLLSRKCFDLKMLKSLSMELTVQKQNILYHLGEDWQKL VVWKFPKADTSSLESCLQTELHLCT
EQPEKEDMTPLPSISSVLLAFSILGELPTKLKSFQMMLKYILKPLVTCPSLHAVIERQPSSVSICFESL
TTDL EHPSPPEAFAKIRLVLEVLQQLDLPLDADLEIGKVPGIVLAEMLGEGIWEDLSECLIRNCLVYS
IPTNSSKLQEYEEIIQSTEEFEKFLKEMRFLKGDTTDLLKYARNINSHFANKKCQDVIVAARNLMTSEIH
NTVKIGPDCKEALPDLSPDADHKLQVQTVCKAQFTDAGNLEPETS LDPQSFLPTCRISEAVKKLMELA
YQTLLEATTSSDQCAVQLFYSVRNIFHLFHDVVPTYHKENLRKLPQLAAIHHNNCMYIAHLLTLGHQFR
LRLAPILCDGTTTFVDL VPGFRRLGTECF LAQMQAQKGELLERLSSARSFANMDDEENYSAASKAVRQVL
HQLRRLGIWQDVL PVNIYCKAMGTL LNTAIAEMMSRITALEDISTEDGDRLYSLCKTVMDEGPQVFAPL
SDENKNKKYQEEVPVYVSKWMPFKELMIMLQASLQEIGDRWADGKGPLATAFPSSEVKALIRALFQNTER
RAAALAKIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



ACCN:	NM_012039
ORF Size:	2337 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_012039.2](#)

RefSeq Size: 2917 bp

RefSeq ORF: 2340 bp

Locus ID: 26951

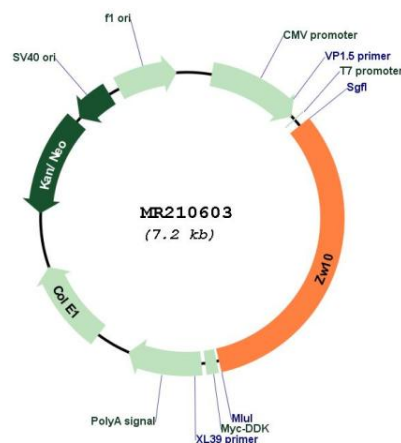
UniProt ID: [O54692](#)

Cytogenetics: 9 A5.3

MW: 88.1 kDa

Gene Summary: Essential component of the mitotic checkpoint, which prevents cells from prematurely exiting mitosis. Required for the assembly of the dynein-dynactin and MAD1-MAD2 complexes onto kinetochores. Its function related to the spindle assembly machinery is proposed to depend on its association in the mitotic RZZ complex. Involved in regulation of membrane traffic between the Golgi and the endoplasmic reticulum (ER); the function is proposed to depend on its association in the interphase NRZ complex which is believed to play a role in SNARE assembly at the ER (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210603